Helpful in solving area of quadrilateral

Trapezium Inequality Theorem

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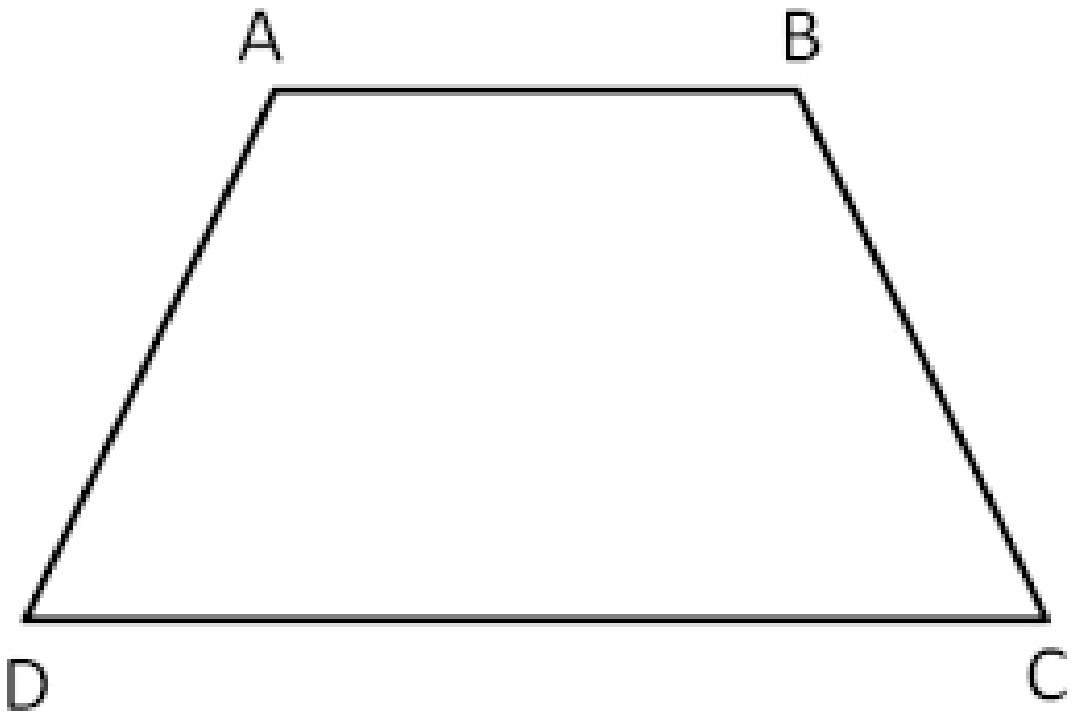


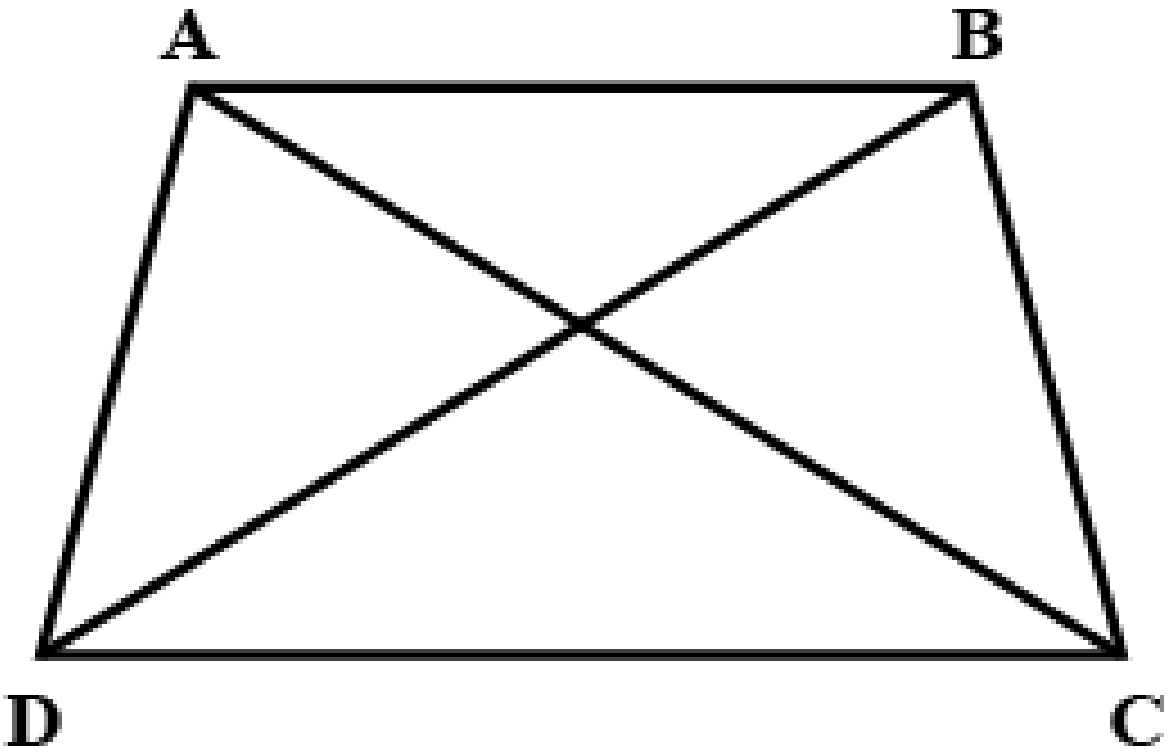
According to this Theorem:

In a trapezoid,the sum if the length of the non parallel sides must be greater than the difference in length between the two parallel lines

$$AD+BC > AB-DC$$

Proof

This can be proved by using the Quadrilateral Inequality Theorem that states that in a quadrilateral the sum of any three sides is always greater than the fourth side.



AD + BC + DC > AB

AD + BC > AB - DC

Hence Proved